



## **NEURAL REGENERATION CONDUIT**

## Abstract of the Disclosure

A neural regeneration conduit employing spiral geometry is disclosed. The spiral 5 geometry is produced by rolling a flat sheet into a cylinder. The conduit can contain a multiplicity of functional layers lining the lumen of the conduit, including a confluent layer of adherent Schwann cells. The conduit can produce a neurotrophic agent concentration gradient by virtue of neurotrophic agent-laden microspheres arranged in a nonuniform pattern and embedded in a polymer hydrogen layer lining the lumen of the 10 conduit.

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